

### **ABSTRACT OF THE DISCLOSURE**

5       The drilling vehicle comprises a chassis movable over ground, a tool arm, a drilling tool  
operatively mounted to the tool arm and defining a drilling extremity and a selectively powered tool arm  
actuator assembly attaching the tool arm to the chassis. The tool arm support comprises:

- a first tool arm actuator allowing rotational displacement of the tool arm about a vertical axis;
- a second tool arm actuator allowing linear translation of the tool arm along a first horizontal  
axis between two limit positions;
- 10       -       a third tool arm actuator allowing linear translation of the tool arm along a second horizontal  
axis which is perpendicular to the first horizontal axis, between two limit positions;
- a fourth tool arm actuator allowing rotational displacement of the tool arm about a third  
horizontal axis; and
- a fifth tool arm actuator allowing pivotal displacement of the tool arm about a fourth  
15       horizontal axis which is perpendicular to the third horizontal axis. The position and orientation of the drilling  
tool drilling extremity is controlled with the first, second, third, fourth and fifth tool arm actuators acting on  
the tool arm.